

ABSTRACT OF THE DISCLOSURE

A TO-CAN type optical module for used in an optical communication is disclosed. The optical module includes: a stem provided with optical components mounted on its upper surface and a through hole formed therethrough; a plurality of pins electrically
5 connected to the optical components via the through hole and having a signal-carrying pin protruding from the lower surface of the stem; and a pair of ground pins spaced at both sides from a protruding portion of the signal-carrying pin. The interior of the through hole of the stem has a desired characteristic impedance by the impedance matching of a coaxial cable, and the lower surface of the stem has a desired characteristic impedance by the
10 dimensions of the protruding portion of the signal-carrying pin and the ground pins and the interval between the protruding portion of the signal-carrying pin and the ground pins.